

Claims

[c1] We claim:

1. An athletic shoe, comprising:
an upper;
a sole coupled to the upper;
the sole comprising:
a carbon portion; and
a titanium portion coupled to the carbon portion.

[c2] 2. The athletic shoe of claim 1, wherein
the carbon portion comprises molded carbon fiber.

[c3] 3. The athletic shoe of claim 1, further comprising
at least one stud; and
the at least one stud is coupled to the carbon portion.

[c4] 4. The athletic shoe of claim 1, further comprising:
at least one hole in the titanium portion.

[c5] 5. The athletic shoe of claim 4, wherein the at least one
hole is a plurality of holes.

[c6] 6. The athletic shoe of claim 5, wherein at least one of
the plurality of holes resides in a toe section of the sole
and wherein at least one other of the plurality of holes

resides in a heel section of the sole, such that the at least one hole in the toe section acts as an air intake and the at least one other hole in the heel section acts as an air exhaust.

[c7] 7.The athletic shoe of claim 1, wherein the carbon portion further comprises:
a carbon bottom; and
an up turned outer rim.

[c8] 8.The athletic shoe of claim 1, wherein the titanium portion further comprises:
an outer wall; and
a titanium bottom, wherein
the outer wall and titanium bottom define a volume.

[c9] 9.The athletic shoe of claim 8, wherein the volume defines at least one airflow path from a toe section to a heel section of the titanium portion.

[c10] 10.The athletic shoe of claim 9, wherein the volume is partially filled in.

[c11] 11.The athletic shoe of claim 7, wherein the carbon portion further comprises:
an inner edge; and
the inner edge defines opening.

[c12] 12.The athletic shoe of claim 11, wherein the titanium portion further comprises:

an outer wall;

a titanium bottom; and

the outer wall has a top edge, wherein the top edge is proximate the inner edge.

[c13] 13.The athletic shoe of claim 12, wherein the titanium portion further comprises:

at least one tab; and

the at least one tab coupled to the top edge, wherein the at least one tab extends radially outward over the inner edge and the carbon bottom.

[c14] 14.The athletic shoe of claim 13, wherein the titanium portion is coupled to the carbon portion by an adhesive residing substantially between the at least one tab and the carbon bottom.

[c15] 15.The athletic shoe of claim 7, wherein the carbon portion further comprises at least one slot in the carbon bottom.

[c16] 16.The athletic shoe of claim 15, wherein the titanium portion further comprises:

an outer wall;

a titanium bottom; and

the outer wall has a top edge, wherein the top edge is proximate the carbon bottom.

[c17] 17.The athletic shoe of claim 16, wherein the titanium portion further comprises at least one tab coupled to the top edge, and wherein the at least one tab is substantially aligned with the at least one slot such that the at least one tab extends through the at least one slot and a portion of the carbon bottom.

[c18] 18.The athletic shoe of claim 17, wherein the at least one tab is adhered to the carbon bottom to couple the carbon portion to the titanium portion.

[c19] 19.An outsole for a cycling shoe, the cycling shoe including an upper having a toe section, a forefoot section, and a heel section, the outsole comprising:
a carbon fiber portion;
the carbon fiber portion comprising a carbon fiber bottom and an up turned outer rim;
the carbon fiber bottom having an inner edge defining an opening;
a titanium portion;
the titanium portion comprising a titanium bottom and an outer wall;
the outer wall having a top edge with at least one tab coupled to the top edge;

the at least one tab extends radially outward from the top edge, over the inner edge and over a portion of the carbon bottom; and
a adhesive between the at least one tab and the portion of the carbon bottom couples the titanium portion to the carbon fiber portion.

- [c20] 20.The outsole of claim 19, further comprising:
a plurality of studs coupled to the carbon fiber bottom.
- [c21] 21.The outsole of claim 19, further comprising:
a plurality of studs coupled to the titanium bottom.
- [c22] 22.The outsole of claim 21, further comprising:
a plurality of studs coupled to the carbon fiber bottom.
- [c23] 23.The outsole of claim 19, further comprising:
at least one hole in the titanium bottom.
- [c24] 24.The outsole of claim 23, wherein the at least one hole comprises a plurality of holes.